

12/08/04

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1612rxd

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1	Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	"Ask CAS" for self-help around the clock
NEWS	3	May 12 EXTEND option available in structure searching
NEWS	4	May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS	5	May 27 New UPM (Update Code Maximum) field for more efficient patent SDIs in CPlus
NEWS	6	May 27 CPlus super roles and document types searchable in REGISTRY
NEWS	7	Jun 28 Additional enzyme-catalyzed reactions added to CASREACT
NEWS	8	Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS	9	Jul 12 BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS	10	Jul 30 BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS	11	AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS	12	AUG 02 CPlus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS	13	AUG 02 STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS	14	AUG 02 The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS	15	AUG 04 Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004
NEWS EXPRESS	JULY 30	CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS		STN Operating Hours Plus Help Desk Availability
NEWS INTER		General Internet Information
NEWS LOGIN		Welcome Banner and News Items
NEWS PHONE		Direct Dial and Telecommunication Network Access to STN
NEWS WWW		CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

10/626092

12/08/04

FILE 'HOME' ENTERED AT 18:18:45 ON 20 AUG 2004

=> file registry  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 18:18:54 ON 20 AUG 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 18 AUG 2004 HIGHEST RN 728239-10-9  
DICTIONARY FILE UPDATES: 18 AUG 2004 HIGHEST RN 728239-10-9

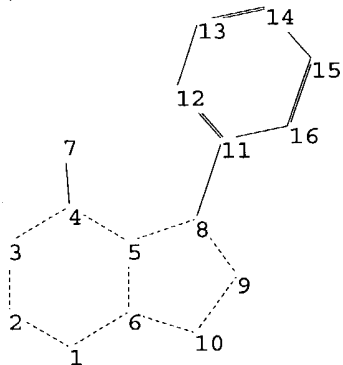
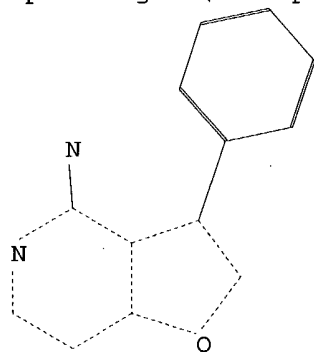
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>  
Uploading C:\Stnexp4 corrupted\QUERIES\10626092.str



chain nodes :

7

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 13 14 15 16

chain bonds :

4-7 8-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-8 6-10 8-9 9-10 11-12 11-16 12-13 13-14  
14-15 15-16

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-8 6-10 8-9 9-10

exact bonds :

10/626092

12/08/04

8-11

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom

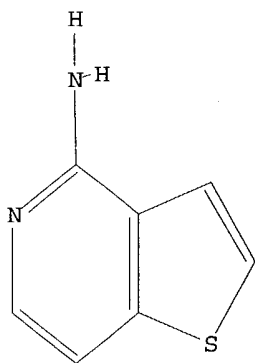
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 18:19:10 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 232 TO ITERATE

100.0% PROCESSED 232 ITERATIONS

13 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 3727 TO 5553

PROJECTED ANSWERS: 44 TO 476

L2 13 SEA SSS SAM L1

=> logoff y

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

0.42

0.63

STN INTERNATIONAL LOGOFF AT 18:19:39 ON 20 AUG 2004

Connecting via Winsock to STN

10/626092

12/08/04

Welcome to STN International! Enter x:x

LOGINID:ssspta1612rxd

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 01 INPADOC: New family current-awareness alert (SDI) available  
NEWS 4 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
STN Express with Discover!  
NEWS 5 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX  
NEWS 6 SEP 27 STANDARDS will no longer be available on STN  
NEWS 7 SEP 27 SWETSCAN will no longer be available on STN  
NEWS 8 OCT 28 KOREAPAT now available on STN  
NEWS 9 NOV 18 Current-awareness alerts, saved answer sets, and current  
search transcripts to be affected by CERAB, COMPUAB, ELCOM,  
and SOLIDSTATE reloads  
NEWS 10 NOV 30 PHAR reloaded with additional data  
NEWS 11 DEC 01 LISA now available on STN  
  
NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
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NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
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FILE 'HOME' ENTERED AT 12:58:40 ON 08 DEC 2004

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 12:59:01 ON 08 DEC 2004

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 DEC 2004 HIGHEST RN 793637-73-7  
DICTIONARY FILE UPDATES: 6 DEC 2004 HIGHEST RN 793637-73-7

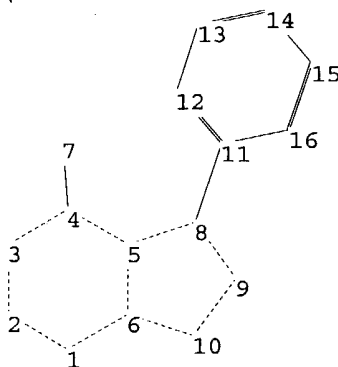
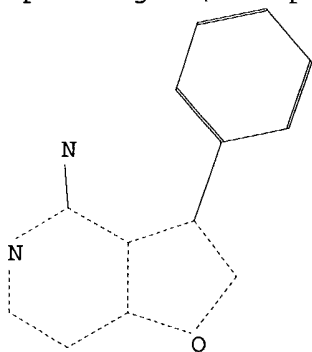
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>  
Uploading C:\Stnexp4 corrupted\QUERIES\10626092.str



chain nodes :

7

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 13 14 15 16

chain bonds :

4-7 8-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-8 6-10 8-9 9-10 11-12 11-16 12-13 13-14  
14-15 15-16

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-8 6-10 8-9 9-10

exact bonds :

8-11

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

10/626092

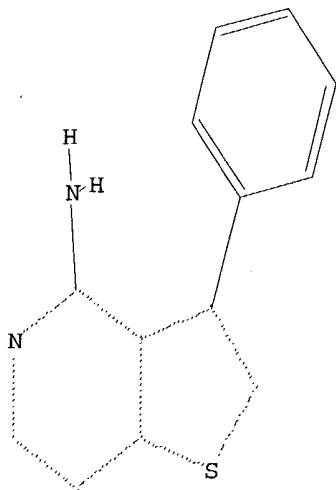
12/08/04

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 12:59:24 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5 TO ITERATE

100.0% PROCESSED 5 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 5 TO 234

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 12:59:28 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 126 TO ITERATE

100.0% PROCESSED 126 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

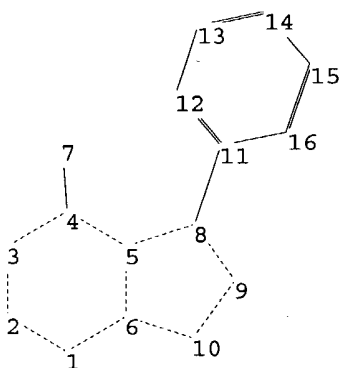
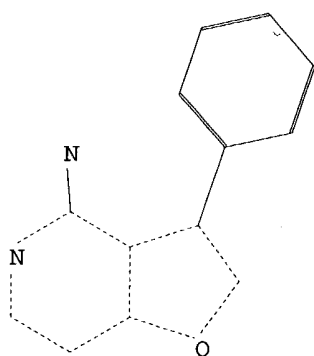
L3 0 SEA SSS FUL L1

=>

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10/626092

12/08/04



chain nodes :

7

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 13 14 15 16

chain bonds :

4-7 8-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-8 6-10 8-9 9-10 11-12 11-16 12-13 13-14  
14-15 15-16

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-8 6-10 8-9 9-10

exact bonds :

8-11

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

L4 STRUCTURE UPLOADED

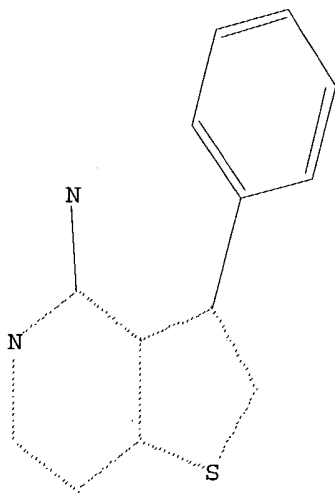
=> d l4

L4 HAS NO ANSWERS

L4 STR

10/626092

12/08/04



Structure attributes must be viewed using STN Express query preparation.

=> s l4

SAMPLE SEARCH INITIATED 13:00:34 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 5 TO ITERATE

100.0% PROCESSED 5 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 5 TO 234  
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

=> s l4 ful

FULL SEARCH INITIATED 13:00:38 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 126 TO ITERATE

100.0% PROCESSED 126 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L4

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	311.68	311.89

FILE 'REGISTRY' ENTERED AT 13:01:37 ON 08 DEC 2004  
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12/08/04

STRUCTURE FILE UPDATES: 6 DEC 2004 HIGHEST RN 793637-73-7  
DICTIONARY FILE UPDATES: 6 DEC 2004 HIGHEST RN 793637-73-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

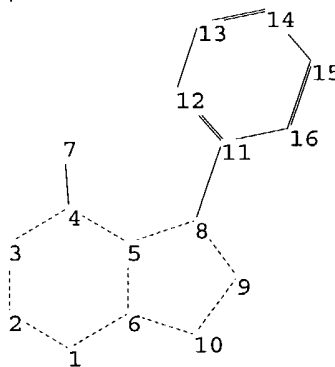
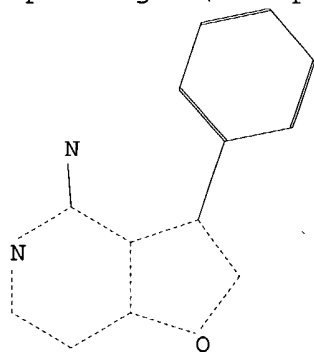
Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>  
Uploading C:\Stnexp4 corrupted\QUERIES\10626092.str



chain nodes :

7

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 13 14 15 16

chain bonds :

4-7 8-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-8 6-10 8-9 9-10 11-12 11-16 12-13 13-14  
14-15 15-16

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-8 6-10 8-9 9-10

exact bonds :

8-11

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

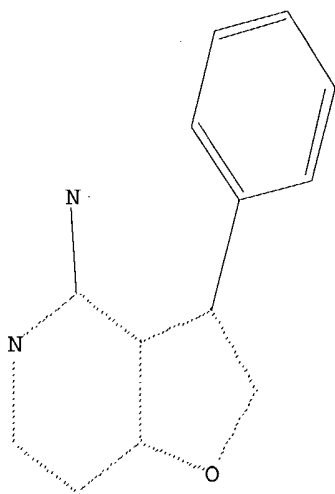
L7 STRUCTURE UPLOADED

=> d 17

10/626092

12/08/04

L7 HAS NO ANSWERS  
L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l7

SAMPLE SEARCH INITIATED 13:02:04 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 121 TO ITERATE

100.0% PROCESSED 121 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 1761 TO 3079  
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> s l7 ful

FULL SEARCH INITIATED 13:02:08 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 2827 TO ITERATE

100.0% PROCESSED 2827 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L9 0 SEA SSS FUL L7

=> logoff y

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY  
156.26

TOTAL  
SESSION  
468.15

FULL ESTIMATED COST

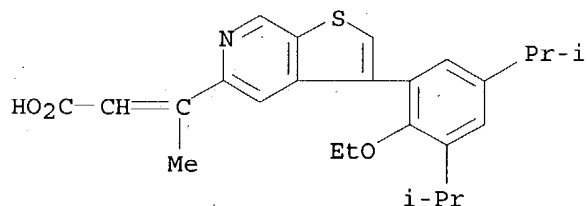
STN INTERNATIONAL LOGOFF AT 13:03:15 ON 08 DEC 2004

10/626092

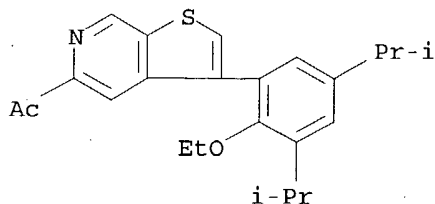
12/08/04

=> d abs bib hitstr

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
AB Benzofused heterocyclic analogs of the RXR selective modulator  
2,3,5-F(CH<sub>2</sub>)<sub>3</sub>O(Me<sub>3</sub>C)2C<sub>6</sub>H<sub>2</sub>CMe:CHCH:CHCMe:CHCO<sub>2</sub>H (LG101506) were  
synthesized, and tested for their ability to bind RXR $\alpha$  and activate  
RXR homo and heterodimers. Potency and efficacy were observed to be  
dependent upon the choice of heterocycle as well as the side chain  
employed.  
AN 2004:362555 CAPLUS  
DN 141:106414  
TI Design and synthesis of benzofused heterocyclic RXR modulators  
AU Gernert, D. L.; Neel, D. A.; Boehm, M. F.; Leibowitz, M. D.; Mais, D. A.;  
Michellys, P. Y.; Rungta, D.; Reifel-Miller, A.; Grese, T. A.  
CS Department of Medicinal Chemistry, Ligand Pharmaceuticals, Incorporated,  
San Diego, CA, 92121, USA  
SO Bioorganic & Medicinal Chemistry Letters (2004), 14(11), 2759-2763  
CODEN: BMCLE8; ISSN: 0960-894X  
PB Elsevier Science B.V.  
DT Journal  
LA English  
OS CASREACT 141:106414  
IT **460086-79-7P**  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL  
(Biological study); PREP (Preparation)  
(preparation of arylheterocyclylbutenoic acids as retinoid X receptor  
modulators)  
RN 460086-79-7 CAPLUS  
CN 2-Butenoic acid, 3-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-  
c]pyridin-5-yl]- (9CI) (CA INDEX NAME)



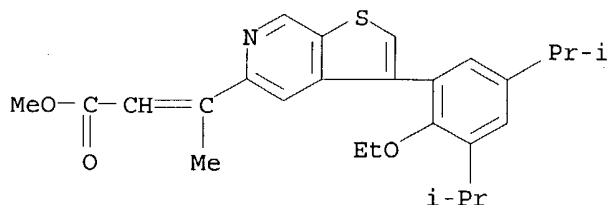
IT **460087-70-1P 460087-71-2P**  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation of arylheterocyclylbutenoic acids as retinoid X receptor  
modulators)  
RN 460087-70-1 CAPLUS  
CN Ethanone, 1-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-c]pyridin-  
5-yl]- (9CI) (CA INDEX NAME)



10/626092

12/08/04

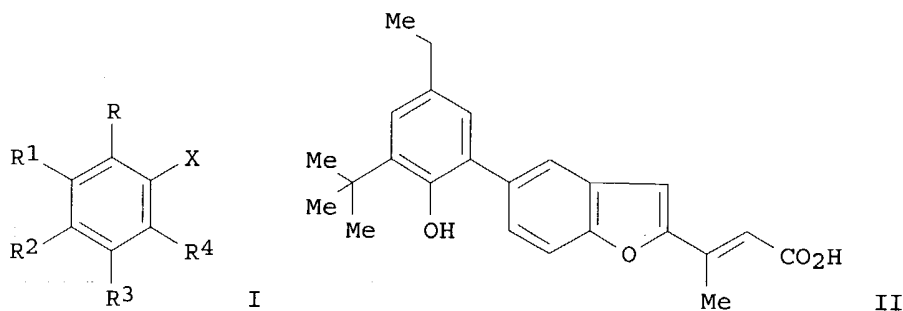
RN 460087-71-2 CAPLUS  
CN 2-Butenoic acid, 3-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-c]pyridin-5-yl]-, methyl ester (9CI) (CA INDEX NAME)



RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d abs bib hitstr 2-3

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
GI



AB Retinoid X receptor modulators, such as I [X = A-C(R5):C(R6)COR16; R = H, halogen, alkyl, haloalkyl, alkenyl, alkynyl, alkoxy, etc.; R1, R2 = H, alkyl, cycloalkyl, cycloalkenyl, aryl, heteroaryl, etc.; R3 = H, alkyl, cycloalkyl, cycloalkenyl, aryl, heteroaryl, amino, etc.; R4 = H, halogen, aryl, alkyl, alkoxy, etc.; R5 = H, halogen, alkyl; R6 = H, halogen; R16 = OH, alkoxy, amino, etc; A = heteroaryl], were prepared for therapeutic use as retinoid X receptor modulators. Thus, acid II was prepared via five synthetic steps starting from 5-bromosalicylaldehyde, 5-Et-2-(MeOCH2O)-3-(CMe3)-C6H2-B(OH)2, ClCH2COMe, and tri-Et phosphonoacetate. The prepared compds. were evaluated for RXR:RAR antagonist activity and PPAR $\alpha$  agonist activity.

AN 2002:715986 CAPLUS  
DN 137:247598  
TI Preparation of retinoid X receptor modulators  
IN Gardinier, Kevin Matthew; Gernert, Douglas Linn; Grese, Timothy Alan; Neel, David Andrew; Mapes, Christopher M.; Michellys, Pierre-Yves; Boehm, Marcus F.  
PA Eli Lilly and Company, USA; Ligand Pharmaceuticals Incorporated  
SO PCT Int. Appl., 294 pp.

10/626092

12/08/04

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002071827	A2	20020919	WO 2002-US8292	20020314
	WO 2002071827	A3	20030410		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2438586	AA	20020919	CA 2002-2438586	20020314
	EP 1373240	A2	20040102	EP 2002-728502	20020314
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	JP 2004532194	T2	20041021	JP 2002-570800	20020314
	US 2004167160	A1	20040826	US 2004-471330	20040116
PRAI	US 2001-275885P	P	20010314		
	WO 2002-US8292	W	20020314		

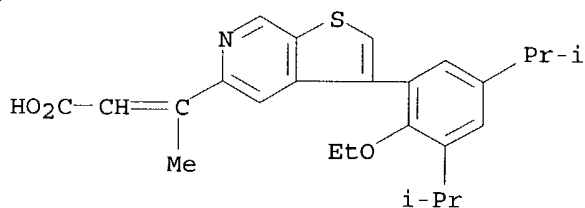
OS MARPAT 137:247598

IT **460086-79-7P**

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of retinoid X receptor modulators for therapeutic use)

RN 460086-79-7 CAPLUS

CN 2-Butenoic acid, 3-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-c]pyridin-5-yl]- (9CI) (CA INDEX NAME)



IT **460087-70-1P 460087-71-2P**

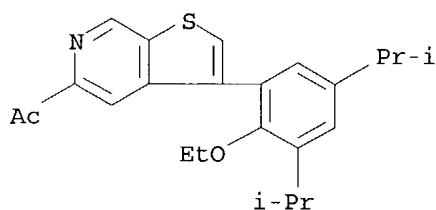
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of retinoid X receptor modulators for therapeutic use)

RN 460087-70-1 CAPLUS

CN Ethanone, 1-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-c]pyridin-5-yl]- (9CI) (CA INDEX NAME)

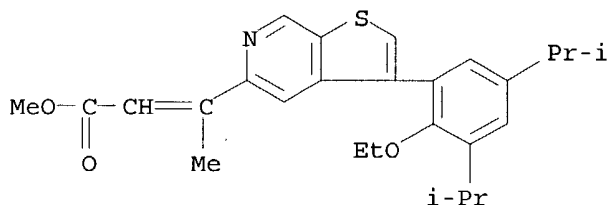
10/626092

12/08/04

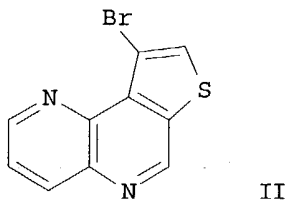
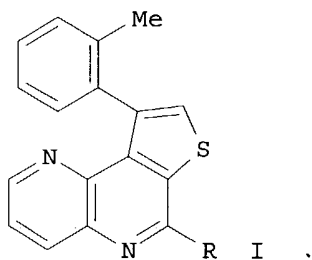


RN 460087-71-2 CAPLUS

CN 2-Butenoic acid, 3-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-c]pyridin-5-yl]-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
GI



AB Seven title compds. I [R = NHMe, NMe<sub>2</sub>, NH<sub>2</sub>, NH(CH<sub>2</sub>)nOH, 4-methylpiperazino; n = 2-4], substituted in the 4-position with different amino-containing groups have been prepared. The reaction route to these compds. consisted of a palladium(0)-catalyzed cross-coupling between 1-bromothieno[2,3-c]-1,5-naphthyridine (II) and 2-MeC<sub>6</sub>H<sub>4</sub>SnMe<sub>3</sub>, oxidation of the 5-nitrogen, followed by treatment with thionyl chloride to give the 4-chloro derivative. The compds. obtained after nucleophilic substitution were tested with regard to their effects on H<sup>+</sup>,K<sup>+</sup>-ATPase activity and on acid formation in gastric glands. However, the inhibitory potency in vitro of the substituted naphthyridines was not high enough to be of interest from a pharmacol. point of view.

AN 1996:380979 CAPLUS

DN 125:142606

TI 4-Substituted 1-(2-methylphenyl)thieno[2,3-c]-1,5-naphthyridines as possible reversible inhibitors of gastric H<sup>+</sup>,K<sup>+</sup>-ATPase

AU Bjoerk, P.; Hoernfeldt, A. B.; Gronowitz, S.; Edvardsson, U.

CS Org. Chem., Lund Univ., Lund, 221 00, Swed.

SO European Journal of Medicinal Chemistry (1996), 31(5), 411-416

CODEN: EJMCA5; ISSN: 0223-5234

10/626092

12/08/04

PB Elsevier

DT Journal

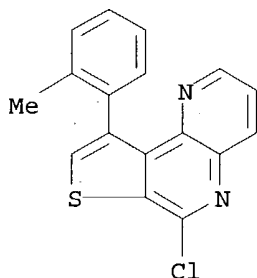
LA English

IT 180057-12-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of amino-substituted (methylphenyl)thienonaphthyridines as reversible inhibitors of gastric ATPase)

RN 180057-12-9 CAPLUS

CN Thieno[2,3-c]-1,5-naphthyridine, 6-chloro-9-(2-methylphenyl)- (9CI) (CA INDEX NAME)



IT 180057-15-2P 180057-16-3P 180057-17-4P

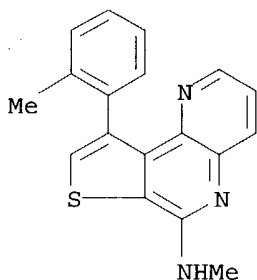
180057-18-5P 180057-19-6P 180057-20-9P

180057-21-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(preparation of amino-substituted (methylphenyl)thienonaphthyridines as reversible inhibitors of gastric ATPase)

RN 180057-15-2 CAPLUS

CN Thieno[2,3-c]-1,5-naphthyridin-6-amine, N-methyl-9-(2-methylphenyl)- (9CI) (CA INDEX NAME)

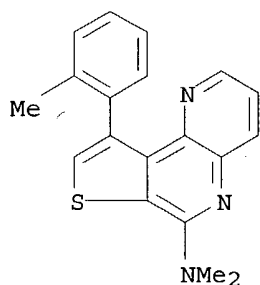


RN 180057-16-3 CAPLUS

CN Thieno[2,3-c]-1,5-naphthyridin-6-amine, N,N-dimethyl-9-(2-methylphenyl)- (9CI) (CA INDEX NAME)

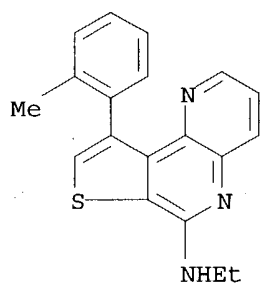
10/626092

12/08/04



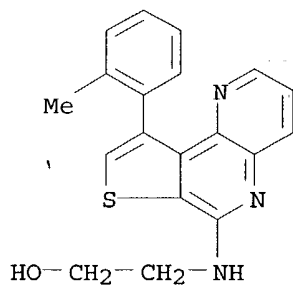
RN 180057-17-4 CAPLUS

CN Thieno[2,3-c]-1,5-naphthyridin-6-amine, N-ethyl-9-(2-methylphenyl)- (9CI)  
(CA INDEX NAME)



RN 180057-18-5 CAPLUS

CN Ethanol, 2-[[9-(2-methylphenyl)thieno[2,3-c]-1,5-naphthyridin-6-yl]amino]-  
(9CI) (CA INDEX NAME)



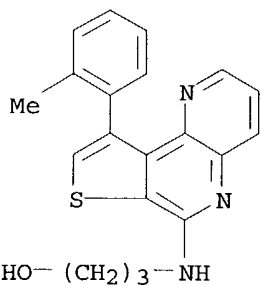
RN 180057-19-6 CAPLUS

CN 1-Propanol, 3-[[9-(2-methylphenyl)thieno[2,3-c]-1,5-naphthyridin-6-yl]amino]-  
(9CI) (CA INDEX NAME)

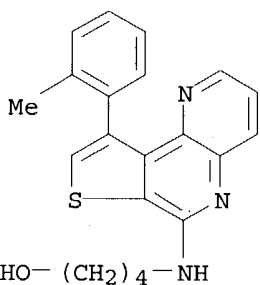
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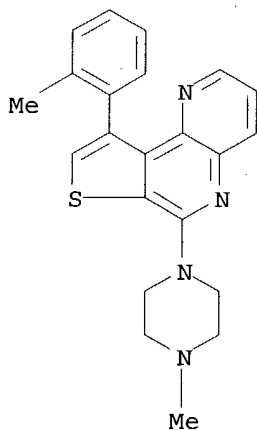
12/08/04



RN 180057-20-9 CAPLUS  
CN 1-Butanol, 4-[[9-(2-methylphenyl)thieno[2,3-c]-1,5-naphthyridin-6-yl]amino]- (9CI) (CA INDEX NAME)



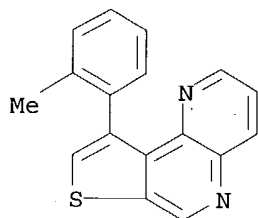
RN 180057-21-0 CAPLUS  
CN Thieno[2,3-c]-1,5-naphthyridine, 9-(2-methylphenyl)-6-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



IT 180057-13-0P 180057-14-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of amino-substituted (methylphenyl)thienonaphthyridines as reversible inhibitors of gastric ATPase)  
RN 180057-13-0 CAPLUS  
CN Thieno[2,3-c]-1,5-naphthyridine, 9-(2-methylphenyl)- (9CI) (CA INDEX NAME)

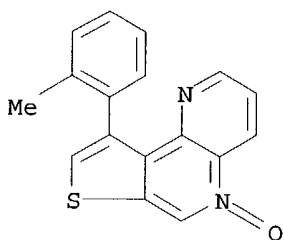
10/626092

12/08/04



RN 180057-14-1 CAPLUS

CN Thieno[2,3-c]-1,5-naphthyridine, 9-(2-methylphenyl)-, 5-oxide (9CI) (CA  
INDEX NAME)



10/626092

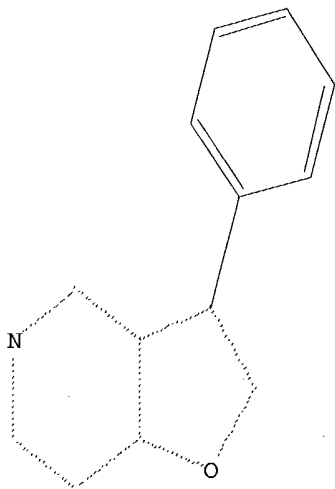
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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

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SAMPLE SCREEN SEARCH COMPLETED - 91 TO ITERATE

100.0% PROCESSED 91 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1248 TO 2392

PROJECTED ANSWERS: 3 TO 163

L2 3 SEA SSS SAM L1

=> s l1 ful

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FULL SCREEN SEARCH COMPLETED - 1964 TO ITERATE

100.0% PROCESSED 1964 ITERATIONS

100 ANSWERS

SEARCH TIME: 00.00.01

L3 100 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

155.42

155.63

FILE 'CAPLUS' ENTERED AT 13:14:40 ON 08 DEC 2004

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FILE LAST UPDATED: 7 Dec 2004 (20041207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 11 L3

=> d abs bib fhitstr 1-11

L4 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

AB The reactions of 2-amino-4,5-dihydro-3-furancarboxamides with cyanomethylene compds. (such as alkyl cyanoacetates and malononitrile) gave the corresponding ring-opened products HOCHR2CHR1CH(CONH2)C(NH2):C(CN)CO2R3 (I, R1, R2 = H, Ph; R3 = Me, Et) and HOCHR2CHR1CH(CONH2)C(NH2):C(CN)2 (II, R1, R2 = H, Ph). I reacted with methanesulfonic acid to give the corresponding  $\alpha$ -alkylidene- $\gamma$ -butyrolactones. On the other hand, treatment of II with methanesulfonic acid yielded 3-pyridinecarbonitrile derivs.

AN 2004:734303 CAPLUS

DN 141:366085

TI Synthesis of  $\alpha$ -alkylidene- $\gamma$ -butyrolactones via ring-cleavage/recyclization of 2-amino-4,5-dihydro-3-furancarboxamides

AU Okabe, Fumi; Tagawa, Yoshinobu; Yamagata, Kenji

CS Faculty of Pharmaceutical Sciences, Fukuoka University, Fukuoka, 814-0180, Japan

SO Journal of Heterocyclic Chemistry (2004), 41(4), 505-508  
CODEN: JHTCAD; ISSN: 0022-152X

PB HeteroCorporation

DT Journal

LA English

IT 778602-87-2P

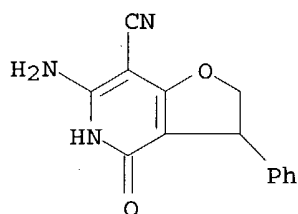
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of  $\alpha$ -alkylidene- $\gamma$ -butyrolactones via ring-cleavage/recyclization of 2-amino-4,5-dihydro-3-furancarboxamides)

RN 778602-87-2 CAPLUS

CN Furo[3,2-c]pyridine-7-carbonitrile, 6-amino-2,3,4,5-tetrahydro-4-oxo-3-phenyl- (9CI) (CA INDEX NAME)

10/626092

12/08/04

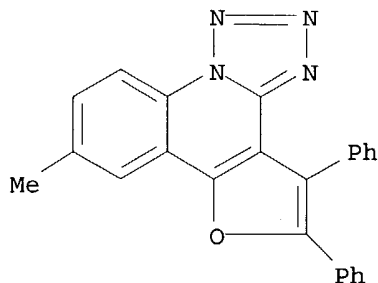


RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN  
AB 11-Chloro-6H-[2]-benzopyrano-[4,3-c]quinolin-6-ones /4-chloro-2,3-diphenyl-furo[3,2-c]quinoline are obtained via the interaction of 6H-[2]-benzopyran [4,3-c]-quinoline-6,11-[12]-dione/ 2,3-diphenyl-furo[3,2-c]-quinolin-4-(5H)-one with a mixture of phosphorus pentachloride and phosphorus oxychloride. These chloro derivs. are further treated with sodium azide, o-phenylenediamine, anthranilic acid and benzoic acid hydrazide sep. to afford novel heterocyclic compds. 11-methyl-1,2,4-tetrazolo [1', 5', 1, 2] quinolino [4,3-c]-benzopyran-8-ones/ 8-methyl- 4,5-diphenyl-1,2,4-tetrazolo-[1',5':1,2]-furo[3,2-c]-quinolines, 13-methyl-imidazolo - [3',2':1,2]-quinolino-[4,3-c]-benzopyran-10-ones/ 10-methyl-6,7-diphenyl-imidazolo [3',2':1,2]-furo[3,2-c]-quinolines, 13-methyl-quinazilono-[3', 2', 1,2] quinolino [4,3-c]-benzopyran-10,16-diones/ 10-methyl-6,7-diphenyl-quinazilono [3', 2', 1,2]-furo[3,2-c]quinolin-13-ones, 11-methyl-1-phenyl-triazolo- [3',4':1,2]quinolino [4,3-c]-benzopyran-8-ones/ 8-methyl-1-phenyl-4,5-diphenyl-triazolo [3',4':1,2]furo-[3,2-c]-quinolines resp. Some of these compds. have also been screened for their biol. activity.  
AN 2003:854934 CAPLUS  
DN 140:287359  
TI Synthesis of novel heterocyclic compounds from 6H-[2]-benzopyrano-[4,3-c]quinolin-6-one and 2,3-diphenyl furo-[3,2-c]-quinolin-4-(5H)-one  
AU Mulwad, V. V.; Lohar, Manojkumar V.  
CS Department of Chemistry, The Institute of Science, Mumbai, 400 032, India  
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2003), 42B(10), 2567-2572  
CODEN: IJSBDB; ISSN: 0376-4699  
PB National Institute of Science Communication  
DT Journal  
LA English  
IT **675597-83-8P**  
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(preparation and antibacterial activity of heterocyclic compds. from benzopyranoquinolinone and furoquinolinone derivs.)  
RN 675597-83-8 CAPLUS  
CN Furo[3,2-c]tetrazolo[1,5-a]quinoline, 7-methyl-10,11-diphenyl- (9CI) (CA INDEX NAME)

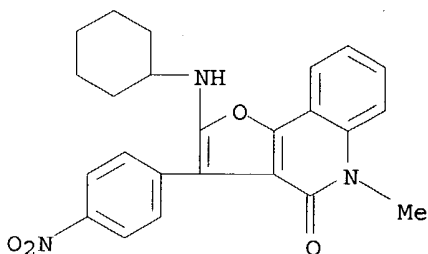
10/626092

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RE.CNT 19      THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4    ANSWER 3 OF 11    CAPLUS    COPYRIGHT 2004 ACS on STN  
AB    The quinone methides generated in situ from 4-hydroxycoumarin or 4-hydroxy-6-methylpyrone and various aldehydes underwent facile reaction with cyclohexyl isocyanide to produce furocoumarins in good yields. Quinone methides from 4-hydroxy-1-methylquinolinone afforded furoquinolinones. The reaction presumably occurs via a [4+1] cycloaddn. followed by a [1,3] H shift.  
AN    2002:175723    CAPLUS  
DN    137:201243  
TI    A facile three-component reaction involving [4+1] cycloaddition leading to furan annulated heterocycles  
AU    Nair, Vijay; Menon, Rajeev S.; Vinod, A. U.; Viji, S.  
CS    Organic Chemistry Division, Regional Research Laboratory, Trivandrum, 695 019, India  
SO    Tetrahedron Letters (2002), 43(12), 2293-2295  
      CODEN: TELEAY; ISSN: 0040-4039  
PB    Elsevier Science Ltd.  
DT    Journal  
LA    English  
OS    CASREACT 137:201243  
IT    **454479-59-5P**  
      RL: SPN (Synthetic preparation); PREP (Preparation)  
      (three-component [4+1]cycloaddn. of hydroxypyranones or hydroxyquinolinones with aldehydes and isocyanide)  
RN    454479-59-5    CAPLUS  
CN    Furo[3,2-c]quinolin-4(5H)-one, 2-(cyclohexylamino)-5-methyl-3-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RE.CNT 15      THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4    ANSWER 4 OF 11    CAPLUS    COPYRIGHT 2004 ACS on STN

10/626092

12/08/04

AB A series of cinnamoylfuroquinolines is described. These compds. were evaluated for their anti microbial activity. The starting materials, 2-methyl-3-benzoyl-4-hydroxy-2,8-dimethyl-3-benzoyl-4-hydroxyquinolines, are prepared in >80-90% yields under microwave irradiation (300 W) within 3 min in a domestic oven.

AN 2000:806044 CAPLUS

DN 134:100785

TI Facile synthesis of 2-cinnamoyl-4-methyl/4,6 dimethyl-3-phenylfuro[3,2-c]quinolines as marked antimicrobial agents

AU Reddy, Y. Thirupathi; Rao, M. Kanakalingeswara; Rajitha, B.

CS Department of Chemistry, Regional Engineering College, Warangal, India

SO Heterocyclic Communications (2000), 6(4), 351-356

CODEN: HCOMEX; ISSN: 0793-0283

PB Freund Publishing House Ltd.

DT Journal

LA English

OS CASREACT 134:100785

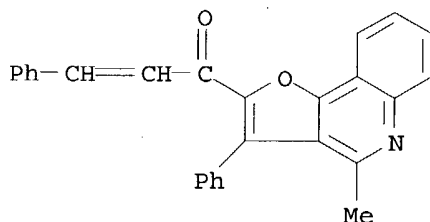
IT **320410-98-8P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of cinnamoylfuroquinolines as antimicrobial agents)

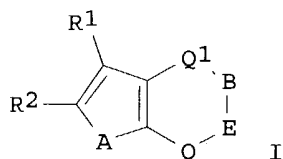
RN 320410-98-8 CAPLUS

CN 2-Propen-1-one, 1-(4-methyl-3-phenylfuro[3,2-c]quinolin-2-yl)-3-phenyl-(9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

GI



AB Title compds. [I; Q, Q1 = null, CH2; A = O, NR', SR'; B = O, NR', SR', CHR'; E = O, NR'', SR'', CHR'', (substituted) aralkyl; R', R'' = H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R1, R2 = H, alkyl, (substituted) aryl, heteroaryl, aralkyl, heteroarylalkyl], were prepared Thus, 2-[3-(1-butyl-4-piperidonyl)]-p-nitroacetophenone (preparation given) was refluxed 3 h in hydrochloric acid to give 35% 5-butyl-2-(4-nitrophenyl)-4,5,6,7-tetrahydrofuro[3,2-c]pyridine fumarate salt. The latter showed a potent dose-dependent rescue of differentiated PC12 cells with maximal

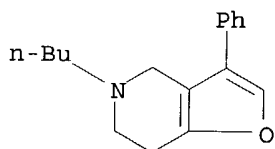
10/626092

12/08/04

protection at 100 nM.

AN 2000:513701 CAPLUS  
DN 133:120320  
TI Preparation of furopyridines and related compounds with neurotrophic activity.  
IN Peters, Dan; Gronborg, Mette; Moller, Arne  
PA Neurosearch A/S, Den.  
SO PCT Int. Appl., 33 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

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	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
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	JP 2002535334	T2	20021022	JP 2000-594813	20000113
	NZ 512289	A	20030630	NZ 2000-512289	20000113
	AU 776276	B2	20040902	AU 2000-30333	20000113
	US 2002013336	A1	20020131	US 2001-875019	20010607
	US 6576641	B2	20030610		
PRAI	DK 1999-61	A	19990119		
	WO 2000-DK12	W	20000113		
OS	MARPAT 133:120320				
IT	285547-56-0P				
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of furopyridines and related compds. with neurotrophic activity)				
RN	285547-56-0 CAPLUS				
CN	Furo[3,2-c]pyridine, 5-butyl-4,5,6,7-tetrahydro-3-phenyl- (9CI) (CA INDEX NAME)				



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

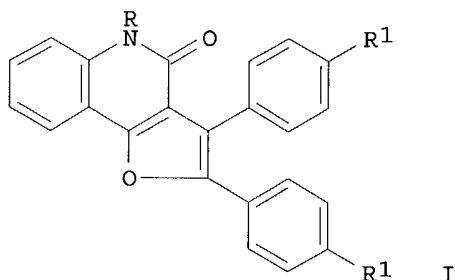
L4 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

10/626092



12/08/04

GI



AB The condensation of 4-hydroxy-2-quinolones with benzoin and anisoin in presence of polyphosphoric acid gave 2,3-diarylfuro[3,2-c]quinoline-4-ones I (R = Me, Et, Ph; R1 = H, OMe).

AN 1996:512486 CAPLUS

DN 125:221743

TI An interesting reaction of N-substituted-4-hydroxy-2-quinolone with benzoin

AU Mulwad, V.V.; Suryanarayan, V.

CS Department of Organic Chemistry, Institute of Science, Bombay, 400 032, India

SO Indian Journal of Heterocyclic Chemistry (1996), 5(4), 321-322

CODEN: IJCHEI; ISSN: 0971-1627

PB Lucknow University, Dep. of Chemistry

DT Journal

LA English

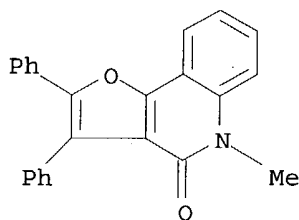
IT 180783-78-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of furoquinolinones from benzoin and hydroxyquinolinones)

RN 180783-78-2 CAPLUS

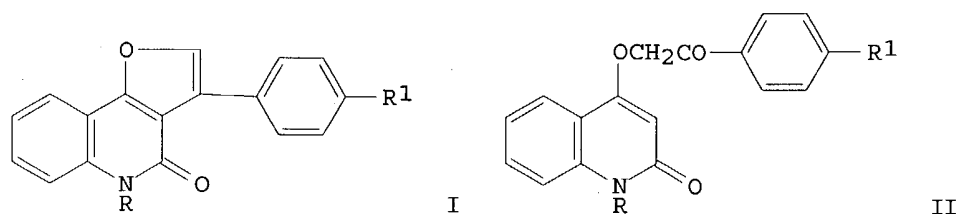
CN Furo[3,2-c]quinolin-4(5H)-one, 5-methyl-2,3-diphenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN  
GI

10/626092

12/08/04



AB Title compds. I (R = Me, Ph; R1 = H, Me, Cl) were prepared in 41-56% yield by cyclodehydration of enol ethers II in polyphosphoric acid at 120°. II were obtained by phenacylation of 4-hydroxy-2(1H)-quinolinones.

AN 1990:216732 CAPLUS

DN 112:216732

TI A convenient synthesis of 3-aryl-4-oxo-4,5-dihydrofuro[3,2-c]quinolines

AU Rao, V. Sudhakar; Darbarwar, Malleshwar

CS Dep. Chem., Osmania Univ., Hyderabad, 500 007, India

SO Synthetic Communications (1989), 19(15), 2713-19

CODEN: SYNCAV; ISSN: 0039-7911

DT Journal

LA English

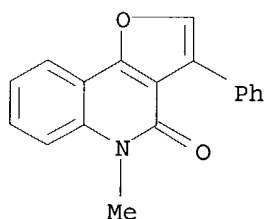
OS CASREACT 112:216732

IT 126936-76-3P

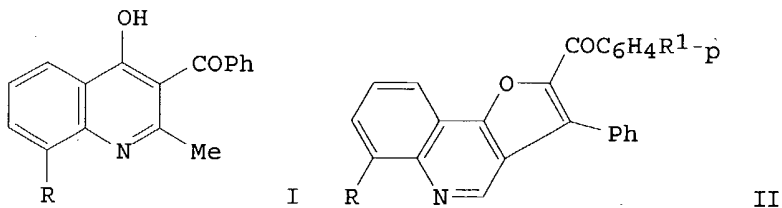
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 126936-76-3 CAPLUS

CN Furo[3,2-c]quinolin-4(5H)-one, 5-methyl-3-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN  
GI



AB Cyclocondensation of 3-benzoyl-4-quinolinols I (R = H, Me) with p-R1C6H4COCH2Br (R1 = H, Ph, Cl, MeO) gives aroylfuroquinolines II.

10/626092

12/08/04

Demethylation of II (R = H, Me; R1 = OMe) followed by substitution reactions with R2CHCH2Cl.HCl (R2 = Et2N, pyrrolidino, piperidino, morpholino) gives II (R = H, Me; R1 = OCH2CH2R2). II were tested for antifertility, analgesic, and antiinflammatory activity. II (R = H, R1 = OCH2CH2R2, R2 = pyrrolidino) shows higher antiinflammatory activity than aspirin.

AN 1988:21749 CAPLUS

DN 108:21749

TI Synthesis and biological activity of furoquinolines: 2-aroyle-4-methyl/4,6-dimethyl-3-phenylfuro[3,2-c]quinolines

AU Sharada, J.; Kumari, Y. Ratna; Rao, M. Kanakalingeswara

CS Dep. Chem., Reg. Eng. Coll., Warangal, 506 004, India

SO Indian Journal of Pharmaceutical Sciences (1987), 49(1), 17-21

CODEN: IJSIDW; ISSN: 0250-474X

DT Journal

LA English

OS CASREACT 108:21749

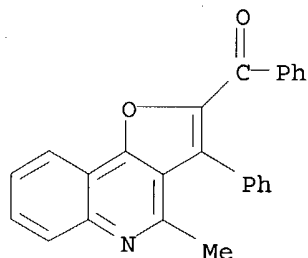
IT 111947-03-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and antifertility, analgesic, and antiinflammatory activity of)

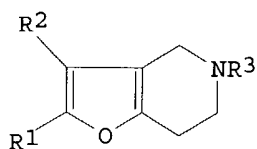
RN 111947-03-6 CAPLUS

CN Methanone, (4-methyl-3-phenylfuro[3,2-c]quinolin-2-yl)phenyl- (9CI) (CA INDEX NAME)

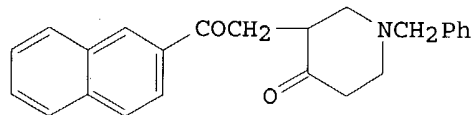


L4 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

GI



I



II

AB The title compds. [I; R1 = Me, naphthyl, (un)substituted Ph; R2 = H, Me, Ph; R3 = H, PhCH2] were prepared as antidepressants and antiischemics. Thus, 1-benzyl-4-piperidinone was condensed with pyrrolidine and the product enamine was alkylated with 2-bromo-1-(2-naphthyl)ethanone to give piperidinone II. This was cyclized by refluxing in concentrated HCl to give I (R1 = 2-naphthyl, R2 = H, R3 = CH2Ph). At 10-60 mg/kg i.p. I increased survival time of mice subjected to MgCl2-induced cardiac arrest.

AN 1986:591057 CAPLUS

DN 105:191057

TI Furo[3,2-c]pyridines and their therapeutic use

10/626092

12/08/04

IN Wick, Alexander; Frost, Jonathan; Bertin, Jean

PA Synthelabo S. A. , Fr.

SO Fr. Demande, 21 pp.

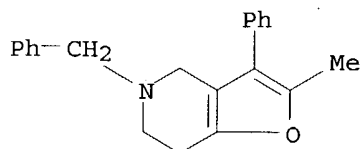
CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

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PI	FR 2570701	A1	19860328	FR 1984-14842	19840927
	FR 2570701	B1	19870522		
	EP 178201	A1	19860416	EP 1985-401732	19850906
	EP 178201	B1	19890201		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	AT 40554	E	19890215	AT 1985-401732	19850906
	ES 547315	A1	19860316	ES 1985-547315	19850926
	DK 8504352	A	19860328	DK 1985-4352	19850926
	DK 158953	B	19900806		
	DK 158953	C	19910114		
	FI 8503719	A	19860328	FI 1985-3719	19850926
	FI 82054	B	19900928		
	FI 82054	C	19910110		
	NO 8503782	A	19860401	NO 1985-3782	19850926
	NO 162821	B	19891113		
	NO 162821	C	19900221		
	JP 61106577	A2	19860524	JP 1985-214460	19850926
	ZA 8507457	A	19860528	ZA 1985-7457	19850926
	HU 38945	A2	19860728	HU 1985-3694	19850926
	HU 192365	B	19870528		
	US 4661498	A	19870428	US 1985-780453	19850926
	CA 1291994	A1	19911112	CA 1985-491635	19850926
	AU 8547952	A1	19860410	AU 1985-47952	19850927
	AU 573390	B2	19880609		
	IL 76535	A1	19880831	IL 1985-76535	19850929
PRAI	FR 1984-14842	A	19840927		
	EP 1985-401732	A	19850906		
OS	CASREACT 105:191057				
IT	104916-03-2P				
	RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as antidepressant and antiischemic)				
RN	104916-03-2	CAPLUS			
CN	Furo[3,2-c]pyridine, 4,5,6,7-tetrahydro-2-methyl-3-phenyl-5-(phenylmethyl)- , hydrochloride (9CI) (CA INDEX NAME)				



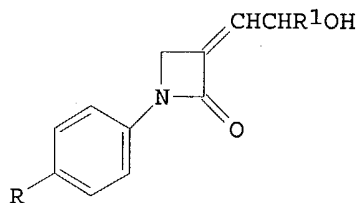
● HCl

L4 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

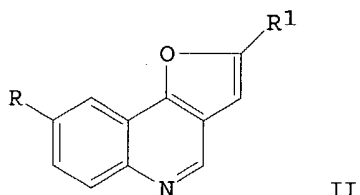
10/626092

12/08/04

GI

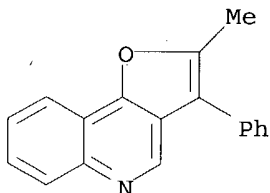


I



II

AB Refluxing arylazetidinones I (R = H, MeO; R1 = Me, Et) in F3CCO2H gave 55-60% furoquinolines II along with the corresponding 4,5-dihydro intermediates.  
AN 1981:442950 CAPLUS  
DN 95:42950  
TI Formation of furo[3,2-c]quinoline derivatives through the Fries-type acid-catalyzed rearrangement of 1-arylazetidin-2-ones  
AU Kano, Shinzo; Shibuya, Shiroshi; Ebata, Tsutomu  
CS Tokyo Coll. Pharm., Tokyo, 192-03, Japan  
SO Heterocycles (1981), 15(2), 1011-15  
CODEN: HTCYAM; ISSN: 0385-5414  
DT Journal  
LA English  
OS CASREACT 95:42950  
IT **78225-32-8P**  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 78225-32-8 CAPLUS  
CN Furo[3,2-c]quinoline, 2-methyl-3-phenyl- (9CI) (CA INDEX NAME)

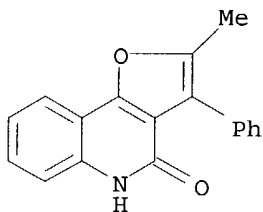


L4 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN  
GI For diagram(s), see printed CA Issue.  
AB cf. CA 58, 11337d. Furan derivs. were prepared from Ph(HC.tplbond.C)CHOH and cyclic  $\beta$ -dicarbonyl compds. in the presence of concentrated H2SO4 or BF3-Et2O in glacial AcOH, 30 min. at 100°. Thus prepared were: 75% I, m. 268° (decomposition), from barbituric acid; 85% II, m. 147-8°, from 1,3-indandione; 67% III, m. 199°, from 4-hydroxycoumarin; 60% IV, m. 264°, from 4-hydroxycarbostyryl.  
AN 1963:415609 CAPLUS  
DN 59:15609  
OREF 59:2815f-h  
TI Furans and pyrans. IV. Preparation of condensed furan derivatives  
AU Reisch, J.  
CS Univ. Muenster, Germany  
SO Angew. Chem. (1962), 74(20), 783

10/626092

12/08/04

DT Journal  
LA Unavailable  
IT 88893-96-3, Furo[3,2-c]quinolin-4(5H)-one, 2-methyl-3-phenyl-  
(preparation of)  
RN 88893-96-3 CAPLUS  
CN Furo[3,2-c]quinolin-4(5H)-one, 2-methyl-3-phenyl- (7CI) (CA INDEX NAME)



=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	53.24	208.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.70	-7.70

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STRUCTURE FILE UPDATES: 6 DEC 2004 HIGHEST RN 793637-73-7  
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<http://www.cas.org/ONLINE/DBSS/registryss.html>

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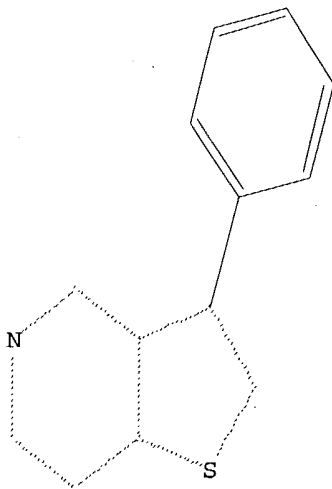
L5 HAS NO ANSWERS

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12/08/04

L5

STR



Structure attributes must be viewed using STN Express query preparation.

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FULL SEARCH INITIATED 13:16:27 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1452 TO ITERATE

100.0% PROCESSED 1452 ITERATIONS

7 ANSWERS

SEARCH TIME: 00.00.01

L6

7 SEA SSS FUL L5

=> file caplus

COST IN U.S. DOLLARS

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ENTRY	SESSION
155.42	364.29

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-7.70

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10/626092

12/08/04

FILE COVERS 1907 - 8 Dec 2004 VOL 141 ISS 24  
FILE LAST UPDATED: 7 Dec 2004 (20041207/ED)

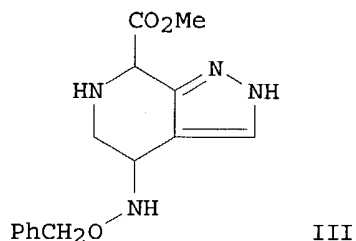
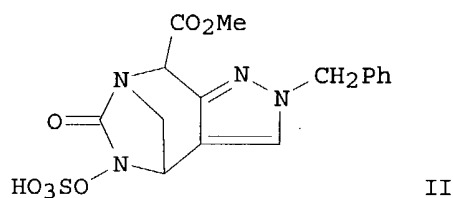
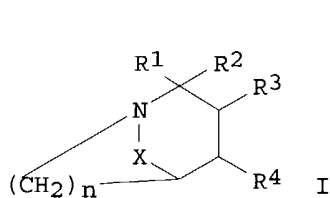
This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> s 16

L7 3 L6

=> d abs bib hitstr 1-3

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
GI



AB Title compds. I [wherein R1 = H, COOH, CN, COOR, (un)substituted CONH<sub>2</sub>, C(:NH)NH<sub>2</sub>, (CH<sub>2</sub>)<sub>m</sub>R<sub>5</sub>; R = (un)substituted alkyl, (CH<sub>2</sub>)alkenyl, aryl, arylalkyl; R<sub>5</sub> = COOH and derivs., CN, OH, NH<sub>2</sub> and derivs., OH and derivs.; m = 1-2; R<sub>3</sub>CCR<sub>4</sub> = (un)substituted Ph, 5-6 membered heterocyclyl; or R<sub>4</sub> = H, (CH<sub>2</sub>)<sub>n1</sub>R<sub>5</sub>; n<sub>1</sub> = 0-2; and R<sub>1</sub>CCR<sub>3</sub> = (un)substituted Ph, 5-6 membered heterocyclyl; R<sub>2</sub> = H, halo, R, OR, NHCOR, etc.; X = -C(:O)-B-; B = -O(CH<sub>2</sub>)<sub>n2</sub>-, -NH-O- and derivs., -NH-(CH<sub>2</sub>)<sub>n2</sub>- and derivs.; n<sub>2</sub> = 0-1; n = 1-2; and their pharmaceutically acceptable salts] were prepared as inhibitors for beta-lactamases produced by pathogenic bacteria. For example, trans-II•TEA (i.e., exo isomer) was prepared by carbonylation of aminopyridine III with diphosgene in the presence of MeCN/TEA, alkylation with benzyl bromide, OBn deprotection and sulfonation with pyridine-SO<sub>3</sub>. II exhibited IC<sub>50</sub> values of 3 nM and 5 nM for inhibition of β-lactamases Tem-1 and P99, resp. In tests against various resistant strains of, e.g., *S. aureus*, selected I exhibited MIC values in the range



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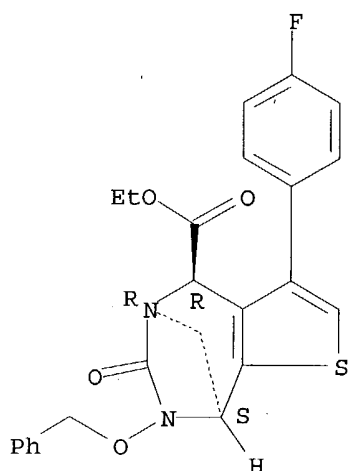
of 0.3-40 µg/mL. Thus, pharmaceutical compns. of I and β-lactamine antibiotics are useful for treatment of bacterial infections.

AN 2004:472092 CAPLUS  
DN 141:38636  
TI Preparation of fused-ring diazepines as anti-bacterial drugs and inhibitors of beta-lactamases  
IN Lampilas, Maxime; Musicki, Branislav; Klich, Michel; Rowlands, David Alan  
PA Aventis Pharma Sa, Fr.  
SO Fr. Demande, 185 pp.  
CODEN: FRXXBL  
DT Patent  
LA French  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2848210	A1	20040611	FR 2002-15428	20021206
	WO 2004052891	A1	20040624	WO 2003-FR3523	20031128
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004157826	A1	20040812	US 2003-727911	20031204
PRAI	FR 2002-15428	A	20021206		
	US 2003-484323P	P	20030702		
OS	MARPAT 141:38636				
IT	<b>704200-35-1P</b> , Ethyl trans-3-(4-fluorophenyl)-4,6,7,8-tetrahydro-6-oxo-7-(phenylmethoxy)-5,8-methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylate <b>704200-36-2P</b> , trans-Ethyl 3-(4-fluorophenyl)-4,6,7,8-tetrahydro-7-hydroxy-6-oxo-5,8-methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylate RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (intermediate; preparation of fused-ring diazepines as inhibitors of β-lactamases)				
RN	704200-35-1	CAPLUS			
CN	5,8-Methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylic acid, 3-(4-fluorophenyl)-4,6,7,8-tetrahydro-6-oxo-7-(phenylmethoxy)-, ethyl ester, (4R,5R,8S)-rel- (9CI) (CA INDEX NAME)				

Relative stereochemistry.

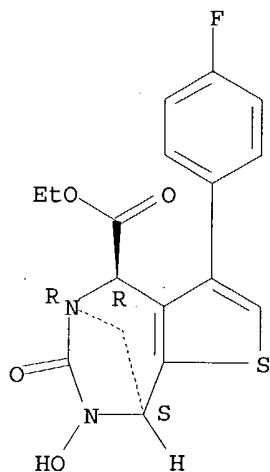
12/08/04



RN 704200-36-2 CAPLUS

CN 5,8-Methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylic acid,  
3-(4-fluorophenyl)-4,6,7,8-tetrahydro-7-hydroxy-6-oxo-, ethyl ester,  
(4R,5R,8S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 704200-25-9P, trans-Ethyl 3-(4-fluorophenyl)-4,6,7,8-tetrahydro-6-oxo-7-(sulfooxy)-5,8-methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylate sodium salt

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

( $\beta$ -lactamases inhibitor; preparation of fused-ring diazepines as inhibitors of  $\beta$ -lactamases)

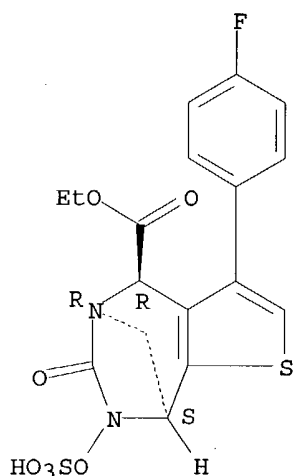
RN 704200-25-9 CAPLUS

CN 5,8-Methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylic acid,  
3-(4-fluorophenyl)-4,6,7,8-tetrahydro-6-oxo-7-(sulfooxy)-, 4-ethyl ester,  
sodium salt, (4R,5R,8S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

10/626092

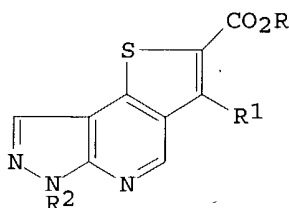
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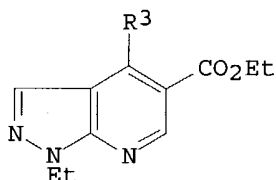
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RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
GI



I



II

AB About 10 pyrazolothienopyridines I (R, R2 = H, Et; R1 = OH, OEt, BuNH, H2NNH, Ph), useful as inflammation inhibitors, central nervous system depressants, and with an ability to increase the intracellular concentration of adenosine-3',5'-cyclic monophosphate and therefore useful in alleviating the symptoms of asthma (dosages given but not activity), were prepared. Thus, 1-ethyl-5-aminopyrazole was heated with EtOCH:C(CO2Et)2 at 120° for 2 hr and the product was cyclized by heating in Ph2O at 235-50° to give II (R3 = OH). This was converted to II (R3 = Cl) and then treated with HSCH2CO2Et in DMF containing Et3N to give II (R3 = EtO2CCH2S), which on heating with NaH in dioxane at reflux cyclized to I (R = R2 = Et; R1 = OH).

AN 1976:446662 CAPLUS

DN 85:46662

TI Derivatives of pyrazolo[3,4-b]thieno[2,3-d]pyridine-2-carboxylic acids

IN Denzel, Theodor; Hoehn, Hans

PA E. R. Squibb and Sons, Inc., USA

SO U.S., 8 pp. Division of U.S. 3,887,570.

10/626092

12/08/04

CODEN: USXXAM

DT Patent  
LA English  
FAN.CNT 2

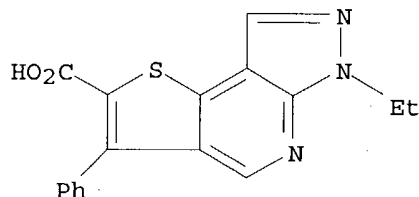
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PI	US 3928362	A	19751223	US 1975-551810	19750221
	US 3887570	A	19750603	US 1973-401798	19730928
	CA 1050027	A1	19790306	CA 1974-208888	19740910
	GB 1479778	A	19770713	GB 1974-40030	19740913
	FR 2246271	A1	19750502	FR 1974-32707	19740927
	JP 50059395	A2	19750522	JP 1974-112220	19740928
PRAI	US 1973-401798		19730928		

IT 56200-46-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and hydrolysis of)

RN 56200-46-5 CAPLUS

CN 6H-Pyrazolo[3,4-b]thieno[2,3-d]pyridine-2-carboxylic acid,  
6-ethyl-3-phenyl- (9CI) (CA INDEX NAME)



RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

GI For diagram(s), see printed CA Issue.

AB Tranquilizing antiinflammatory (no data) acids I (R = H, R1 = OEt, Ph; R = Et, R1 = NHBu, NHN:CMe2) were prepared. Thus, II (R2 = H) was treated with EtOCH:C(CO2Et)2, II [R2 = CH:C(CO2Et)2] cyclized, III (R3 = OH) chlorinated and treated with HSCH2CO2Et, III (R3 = SCH2CO2Et) cyclized with base, I (R = Et, R1 = OH) treated with EtI, and I (R = Et, R1 = OEt) hydrolyzed to I (R = H, R1 = OEt).

AN 1975:458814 CAPLUS

DN 83:58814

TI Pyrazolo[3,4-b]thieno[2,3-d]pyridine-2-carboxylic acids and esters

IN Denzel, Theodor

PA Chemische Fabrik von Heyden G.m.b.H., Fed. Rep. Ger.

SO Ger. Offen., 28 pp.

CODEN: GWXXBX

DT Patent

LA German

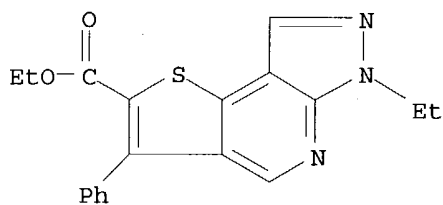
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2446495	A1	19750410	DE 1974-2446495	19740928
	US 3887570	A	19750603	US 1973-401798	19730928
	CA 1050027	A1	19790306	CA 1974-208888	19740910
	GB 1479778	A	19770713	GB 1974-40030	19740913
	FR 2246271	A1	19750502	FR 1974-32707	19740927

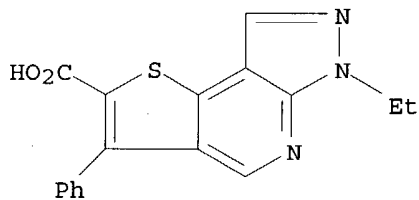
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JP 50059395                      A2            19750522            JP 1974-112220                      19740928  
PRAI US 1973-401798                      19730928  
IT **56200-45-4P**  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
      (Reactant or reagent)  
      (preparation and hydrolysis of)  
RN 56200-45-4    CAPLUS  
CN 6H-Pyrazolo[3,4-b]thieno[2,3-d]pyridine-2-carboxylic acid,  
   6-ethyl-3-phenyl-, ethyl ester (9CI)    (CA INDEX NAME)



IT **56200-46-5P**  
RL: SPN (Synthetic preparation); PREP (Preparation)  
      (preparation of)  
RN 56200-46-5    CAPLUS  
CN 6H-Pyrazolo[3,4-b]thieno[2,3-d]pyridine-2-carboxylic acid,  
   6-ethyl-3-phenyl- (9CI)    (CA INDEX NAME)



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